PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY		AEC'D I E MAN			
To: ANTHONY J. JANIUK WATERS CORPORATION		PCT WIPO			
34 MAPLE STREET MILFORD, MA 01757	REET WRITTEN O				
	(Pe	CT Rule 43bis.1)			
	Date of mailing (day/month/year)	14 JUN 2005			
Applicant's or agent's file reference	FOR FURTHER ACTI	ON aragraph 2 below			
AF-389		rity date (day/month/year)			
PCT/US05/06670 02 March 200 International Patent Classification (IPC) or both national		farch 2004 (05.03.2004)			
IPC(7): F16K 5/00, 25/00, 31/02 and US Cl.: 251/129 Applicant	11, 180, 192, 304				
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WATERS INVESTMENTS LIMITED					
1. This opinion contains indications relating to the fol	lowing items:				
Box No. I Basis of the opinion					
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention	Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain documents cited	• .	· .			
Box No. VII Certain defects in the inte	national application	application			
Box No. VIII Certain observations on the	Box No. VIII Certain observations on the international application				
2. FURTHER ACTION					
If a demand for international preliminary examina International Preliminary Examining Authority (Authority other than this one to be the IPEA and that written opinions of this International Searching	"IPEA") except that this does not the chosen IPEA has notified the Inte	ernational Bureau under Rule 66.1bis(b)			
If this opinion is, as provided above, considered IPEA a written reply together, where appropria mailing of Form PCT/ISA/220 or before the expir	e with amendments, before the ex	piration of 3 months from the time of			
For further options, see Form PCT/ISA/220.		. [
3. For further details, see notes to Form PCT/ISA/22	20.	^			
Name and mailing address of the ISA/ US	Authorized officer	\mathcal{W}			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Edward K. Lopk	EdyArd K. Lolk V			
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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/06670

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filling/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
Turnished subsequently to this Additional for the purpose of the p
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/06670

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims 1-23 Claims NONE	YES NO				
Inventive step (IS)	Claims 1-23 Claims NONE	YES NO				
Industrial applicability (IA)	Claims 1-23 Claims NONE	YES NO				

2. Citations and explanations:

Claims 1-23 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a device for controlling the flow of fluids comprising a rotor having a rotor fluid communication means, a load bearing surface, a stator having a stationary load bearing surface, means to prevent the flow of fluid, a compression means, and at least one of the rotor bearing surface or the stator bearing surface having a diamond like carbon-silica coating.

Claims 1-23 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

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Box No.	vm	Certain observations	s on the internation	onai appucation

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claim 23 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claim 23 is indefinite for the following reason(s): dependant claim 23 is not written in proper form and the examiner can not ascertain what structure is being referred to that has "more than 2 position".